

Horizon-Europe Project ReMuNet and other EU Research Activities of FIR at RWTH Aachen University

Successful R&I in Europe 2024, February 15th, 2024

John von Stamm





At FIR we do interdisciplinary research to develop digitally connected, human-centric organisations and drive industrial twin transition



Our Vision:

Empower the organisation of the future!



Conceptualization of resilient and sustainable business ecosystems



Industry-oriented product-service systems and business models



Production processes and logistics



Digital enterprise architectures



Urban mobility concepts and new work systems



Infrastructure for experimental research and prototyping



At FIR we have years of experience in EU project management







Introducing EU-Horizon Project

ReMuNet – Resilient Multimodal Freight Transport Network







In recent years supply chains have been extremely disrupted across Europe





In ReMuNet 23 international partners are working on increasing the resilience and sustainability of European freight transport

Intermodal & International

Funding amount: 4 Mio €

07/23-07/26

Duration:



Rail

Road











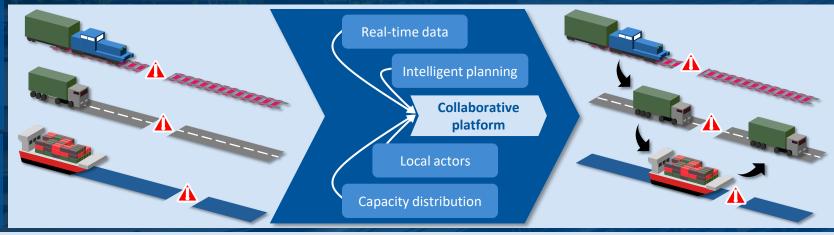






Identification of alternative routes



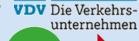
























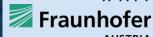




























ReMuNet pursues a multi-stage approach to increase the resilience of multimodal freight transport

Understanding

WP 1

of multimodal transport networks and description of the effects of disruptive events

Calculation

of multimodal transport route options against the background of disruptive events

Enabling

of collaborative synchromodal freight transport

Piloting and improvement of system-optimising transport and route allocation

European transport networks

► Typology of disruptive events

► ReMuNet ontology

Reference model

➤ Replication of the infrastructure and its utilisation

► Route planning algorithm

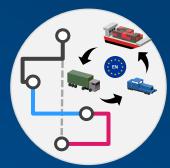
WP 3

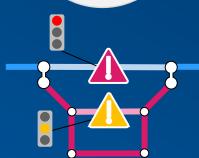
► Collaborative platform

► Self-learning algorithm

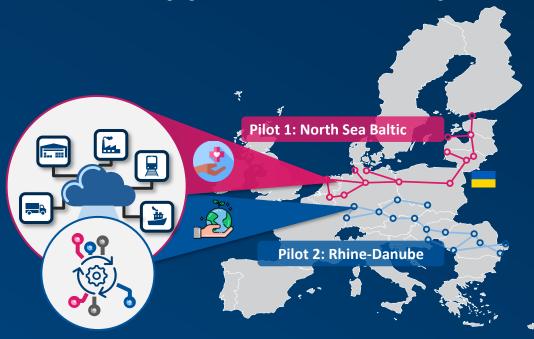
VP 5 ▶ P1: Social use case

► P2: Ecological use case









Industrial application

WP 6



Thank you for your attention!







M.Sc.

John von Stamm

Project Manager Business Transformation



+49 241 47705-304





www.remunet-project.eu

CONTACT US: info@remunet-project.eu

- f Remunet Project
- in ReMuNet Project
- @ReMuNetProject
- ReMuNet Project





